



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Serial No: 10/618,077 Confirmation No: Not Known  
Date Filed: July 11, 2003  
Application Title: Polymerase Extension at 3' Terminus Of PNA-DNA Chimera  
Applicants: Egholm et al.  
Group Art Unit: Not Known  
Examiner: Not Known  
Certified Mail No: 7003 0500 0000 1738 0813

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Brian D. Gildea  
Reg. No. 39,995

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INFORMATION DISCLOSURE STATEMENT

Commissioner For Patents  
Dear Sir or Madam:

In accordance with 37 C.F.R. § 1.97, Applicant(s) hereby make of record the following information and publications. Copies of PTO Form 1449 and each publication listed thereon accompany this statement, either in the entirety or in the relevant parts. The documents identified herein are NOT admitted as being prior art.

FEE

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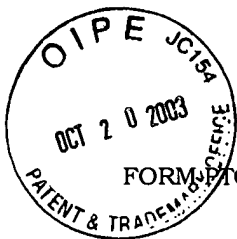
Respectfully submitted,

Date: Oct 15, 2003

Brian D. Gildea  
Brian D. Gildea  
Reg. No. 39,995

Applied Biosystems  
15 DeAngelo Drive  
Bedford, MA 01730

phone 781-280-2824  
fax 781-280-2940



FORM PTO-1449

## INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.: 4468C2  
APPLICANT: Michael Egholm  
SERIAL NO.: 10/618,077  
FILING DATE: 7/11/03  
GROUP:

## US PATENT DOCUMENTS

EXAM INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	01	5,332,666	July 26, 1994	Prober et al.	435	91.5	Oct. 22, 1991
	02	6,063,571	May 16, 2000	Uhlmann et al.	435	6	Sept. 11, 1997
	21	6,265,559	July 24, 2001	Gildea et al.	536	23.1	May 12, 2000

FOREIGN PATENT  
DOCUMENTS

EXAM INIT.		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES	NO
	03	WO93/25563	Dec. 23, 1993					
	04	WO95/08556	Mar. 30, 1995					
	05	EP0672677	Sep. 20, 1995					
	06	WO97/31256	Aug. 28, 1997					
	07	WO97/49769	Dec. 31, 1997					
	08	EP0829542	Mar. 18, 1998					
	09	WO99/34014	July 8, 1999					

	10	Stratagene, Catalog, Gene Characterization Kits, page 39 (1988)
	11	Reaching, L. et al., "Polyamide Nucleic Acid Targeted to the Primer Binding Site of the HIV-1 RNA Genome Blocks In Vitro HIV-1 Reverse Transcription," <b>Biochemistry</b> 37, 900-910 (1998)
	12	Lutz, M.J., et al., Recognition of Uncharged Polyamide-Linked Nucleic Acid Analogs by DNA Polymerases and Reverse Transcriptions," <b>Journal of American Society</b> 119, 3177-3178
	13	Hari S. Misra et al., "Polyamide Nucleic Acid-DNA Chimera Lacking the Phosphate Backbone are Novel Primers for Polymerase Reaction Catalyzed by DNA Polymerases," <b>Biochemistry</b> 37, 1917-1925 (1998)
	14	Pastin, T. et al, "Minisequencing: A Specific Tool For DNA Analysis And Diagnostics On Oligonucleotide Arrays." <b>Genome Research</b> , 7, 606-614 (1997)
	15	Ross P. et al., "Discrimination of Single-Nucleotide Polymorphisms in Human DNA Using Peptide Nucleic Acid Probes Detected by MALDI-TOF Mass Spectrometry," <b>Analytical Chemistry</b> 69 (20), 4197-4202 (1997)
	16	Uhlmann, E. et al., "Peptide Nucleic Acids (PNA) and PNA-DNA Chimeras: From High Binding Affinity Towards Biological Function," <b>Biol. Chemistry</b> 379, 1045-1052 (1998)
	17	Uhlmann, E. et al., "Synthesis and Properties of PNA/DNA Chimeras," <b>Angew. Chemical Int. Ed. Engl.</b> 35 (22) 2632-2635
	18	Alexander C. Van Der Laan, et al., "A Convenient Automated Solid-Phase Synthesis of PNA-(5')-DNA-(3')-PNA Chimera," <b>Tetrahedron Letters</b> 38 (13), 2249-2252 (1997)
	19	Ravi Vinatak et al., "Automated Chemical Synthesis of PNA and PNA-DNA Chimera on a Nucleic Acid Synthesizer," <b>Nucleosides &amp; Nucleotides</b> 16 (7-9) 1653-1656 (1997)
	20	Yershov, G.. et al, "DNA Analysis And Diagnostic On Oligonucleotide Microchips." <b>Proc. Natl. Acad. Sci. USA</b> , 93, 4913-4918 (1996)

EXAMINER: \_\_\_\_\_ DATE CONSIDERED: \_\_\_\_\_